

FINAL AGENDA

Last updated 11/11/15

NASA CMS Applications Workshop
The Westin Pasadena, Pasadena, California
Monday, November 16, 2015

NASA Carbon Monitoring System (CMS)

Goals of the CMS Applications Workshop:

- Identify the challenges/needs of communities that are interested in carbon Measurement, Reporting and Verification (MRV) and related activities.
- Provide information on value of CMS products for MRV and related applications – including exploration of key “what?” and “how?” questions for carbon data.
- Link CMS community to active policy end users, decision makers and regulatory agencies to ensure maximum benefit of the projects to society.
- Identify CMS products that are relevant and ready for use by stakeholders and decision makers-update Application Readiness Levels (ARLs).
- Review the CMS Data & Products Fact Sheet and identify CMS data products that align with stakeholders. (Identify potential impact case studies).

Expected Workshop Outcome:

- Expose the Science Team members to decision makers and regulatory data users.
- Define a community of CMS scientists who are willing to serve as collaborators with future CMS impact studies.
- Identify potential stakeholders to demonstrate how CMS products may impact decision processes or what CMS products are needed in terms of carbon data at their facilities.

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(Fountain Ballroom)

8:00am	CMS Applications Meeting Registration & Check-in (Outside of Fountain Ballroom)	
8:30am	Meet and Greet and Poster Session (Fountain Ballroom IV)	
10:00am	George Hurtt, <i>CMS Science Team Leader & Peter Griffith, Chief Scientist of NASA Carbon Cycle & Ecosystems Office</i>	CMS Science Team Meeting Welcome
10:15am	Ken Jucks, Kathy Hibbard, and Hank Margolis, <i>NASA HQ</i>	Welcome, Introduction of carbon cycle and CMS congressional direction
10:30am	Vanessa Escobar, <i>CMS Applications Coordinator</i>	CMS Applications Activity Welcome, CMS Applications Program, stakeholder engagement and CMS impact studies
10:45am	Brief around-the-room introductions facilitated by Vanessa Escobar <ul style="list-style-type: none">• Introduction of all stakeholders in the room• Stakeholders state their need/desired outcome(s) for CMS engagement.• Define the work you do and the decision you are trying to make. How/What type of carbon data from the CMS (potentially) provides decision support? <i>Goals & Objectives for the Day (Vanessa Escobar)</i>	
11:00am	Lunch Break (On your own)	

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	Speaker	Topic
12:00pm	Ian Hanou, <i>Plan-It Geo, LLC</i> , and Matt Russell, <i>University of Minnesota</i>	<p>Forest biomass for local resource management</p> <p>Phone application for foresters that would rapidly summarize forest carbon attributes (based off of a gridded data product) within defined radii of a phone's location</p> <p>(PIs: Ganguly-01, Greenberg-01, Hudak-01, Hurtt-03, Williams-C-01, Cohen-02, Dubayah-04, Duren-01, Escobar-01)</p>
12:20pm	Mark Trice, <i>Maryland Department of Natural Resources</i>	<p>Local-scaled ocean acidification monitoring efforts</p> <p>(PIs: Bowman-02, Hurtt-03, Lohrenz-05, Duren-01, Escobar-01)</p>
12:40pm	Steve Crooks, <i>Environmental Science Associates</i>	<p>Wetlands in GHG inventory</p> <p>(PIs: Hurtt-03, Jacob-02, Lohrenz-05, Windham-Myers-01, Duren-01, Escobar-01, Morton-02)</p>
1:00pm	Jeff Cole, <i>Blue Source</i>	<p>Forest biomass for carbon markets</p> <p>(PIs: Fatoyinbo-01, Ganguly-01, Greenberg-01, Hudak-01, Hurtt-03, Lohrenz-05, Morton-01, Walker-W-01, Williams-C-01, Duren-01, Escobar-01, Graven-01, Stehman-01)</p>
1:20pm	Bart Croes and Elizabeth Scheehle, <i>California Air Resources Board</i>	<p>Perspectives on California's ambitious GHG mitigation targets</p> <p>(PIs: Andrews-03, Baker-01, Bowman-02, Ganguly-01, Greenberg-01, Hudak-01, Jacob-02, Williams-C-01, Windham-Myers-01, Dubayah-04, Duren-01, Escobar-01, Graven-01)</p>
1:40pm	<i>Panel: Q & A with Speakers</i>	
2:00pm	<i>Afternoon Break</i>	
2:30pm	Walter Vergara and Fred Stolle, <i>World Resources Institute (WRI) Initiative 20x20</i>	<p>International MRV in Latin America</p> <p>(PIs: Andrews-03, Morton-01, Walker-W-01, Asrar-West-04, Cochrane-01, Collatz-02, Dubey-01, Duren-01, Escobar-01, Hagen-01, Keller-01, Kellndorfer-03, Vargas-01, Houghton-02)</p>
2:50pm	Kate Larsen, <i>Rhodium Group</i>	<p>The International and National MRV Landscape</p> <p>(PIs: Andrews-02, Baker-01, Bowman-02, Fatoyinbo-01, Jacob-02, Morton-01, Ott-01, Walker-W-01, Williams-C-01, Windham-Myers-01, Asrar-West-04, Cochrane-01, Cohen-02, Collatz-02, Dubey-01, Duren-01,</p>

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		Escobar-01, Hagen-01, Keller-01, Kellndorfer-03, Lauvaux-01, Stehman-01, Vargas-01)
3:10pm	Sanden Totten, KPCC	Media Perspective- Making the Public Care About Carbon: Media and scientists roles in communicating carbon-related research
3:30pm	Amy Holm, The Climate Registry	MRV Process (PIs: Andrews-03, Baker-01, Fatoyinbo-01, Hudak-01, Hurt-03 , Jacob-02, Lohrenz-05, Morton-01, Walker-W-01, Williams-C-01, Windham-Myers-01, Cochrane-01, Cohen-02, Dubayah-04, Dubey-01, Duren-01, Escobar-01 , Graven-01, Hagen-01, Keller-01, Kellndorfer-03, Nehrkrone-01, Stehman-01, Vargas-01, Healey-01, Houghton-02, Miller-J-01, Saatchi-02)
3:45pm	Panel: Q & A with Speakers	
4:00pm	Afternoon Break	
4:15pm	Break Out Session	
	Discuss the details of individual CMS products and how they will/will not satisfy MRV, policy and GHG. Address what do stakeholders need/want?	
	<ol style="list-style-type: none"> 1. Breakout #1 <i>Fountain Ballroom</i> 2. Breakout #2 <i>San Marino</i> 3. Breakout #3 <i>Altadena</i> 4. Breakout #4 <i>Leishman Boardroom</i> 	
	Questions for each working group to address:	
	<ul style="list-style-type: none"> ➤ What are the specific stakeholder needs that could potentially be addressed by current or future CMS data products? ➤ What actions can stakeholders take with NASA to evaluate and/or incorporate CMS data products into decision making? ➤ What are the main challenges to expressing uncertainty for each theme? 	
	Outcomes:	
	<ul style="list-style-type: none"> ➤ Each group should create a list of challenges, opportunities, data format and requirements, uncertainty considerations, and a plan for implementation (if appropriate). ➤ Each group must report at least two action items (one designated for CMS, the other for the stakeholder) that identify the next step forward in helping connect the science to the decision process. 	
5:00pm	Reports back from groups (5 minutes each) (Fountain Ballroom)	Designated reporter with 1 page report and action items moving forward
5:30pm	Open discussion and identification of actions forward for each policy MRV scale – Facilitated by George Hurtt and Vanessa Escobar	
6:00pm	Vanessa Escobar, <i>CMS Applications Coordinator</i>	Summary of workshop and actions moving forward. Closing remarks.
6:15pm	CMS Applications Social and Dinner at (Location TBD)	